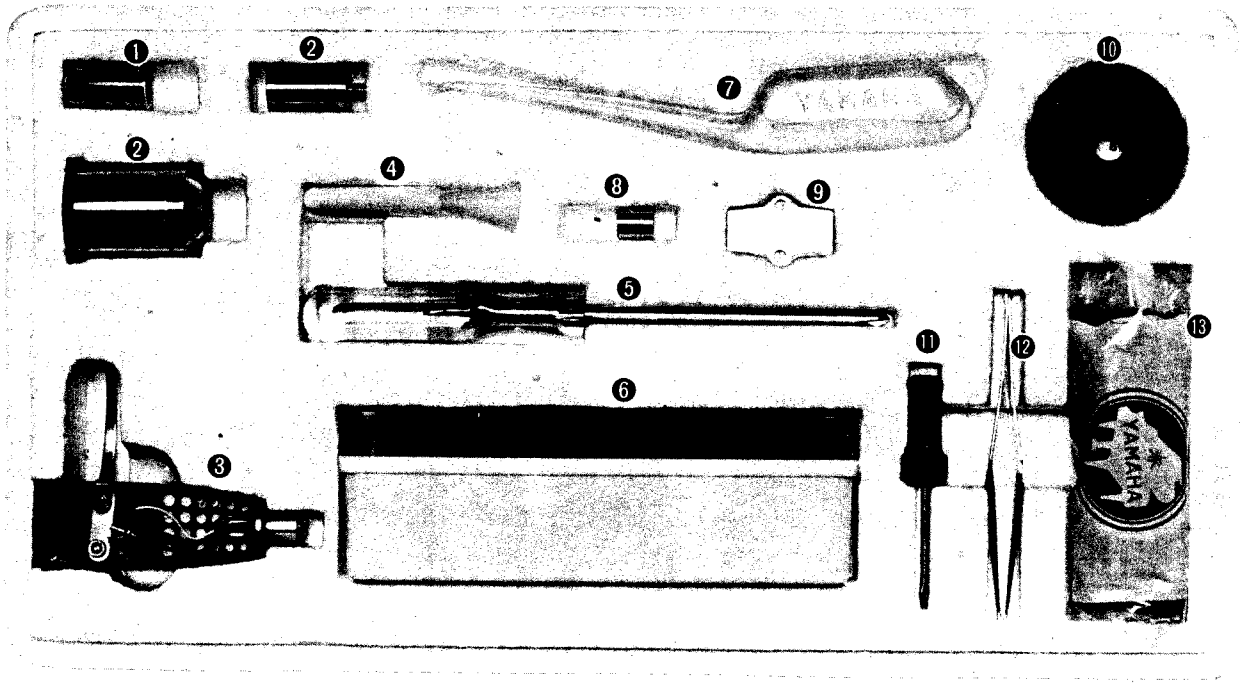
YAMAHA
YP-701
OWNER'S MANUAL

READ THIS FIRST

Be sure you are fully familiar with the instructions in this manual before attempting to operate your YP-701. Most audio repairs are necessitated by faulty operation when the unit is first used, so avoid delay and disappointment by making sure all connections and adjustments are properly completed BEFORE you play your first record.

Warning; to prevent fire or shock hazard, do not expose this appliance to rain or moisture.

SUPPLIED TOOLS & ACCESSORIES



❶ **Lateral Balance Weight**
Used in the lateral adjustment of the tonearm.

❷ **Main & Sub Weights**
Used to balance the tonearm according to the weight of the cartridge you select.

❸ **Head Shell**
The cartridge is mounted in this shell, which is in turn attached to the tonearm.

❹ **Stylus Brush**
Special soft bristles for cleaning dust from the stylus.

❺ **(+) Screwdriver**
Used to remove transport screws and for changing the voltage selector setting when necessary.

❻ **Record Cleaner**
Lightly brush the record surface to remove dust before playing (brush clockwise).

❼ **Lubrication Oil**
Snip off the end and oil in the special hole when needed.

❽ **Anti-Skating Weight**
This weight must be added during tonearm adjustment.

❾ **Shell Weight**
Slips between the cartridge and head shell to compensate for an unusually lightweight cartridge design.

❿ **45 rpm Adaptor**
Slip this adaptor into the middel of a 45 rpm ("donut") record and no special spindle is required.

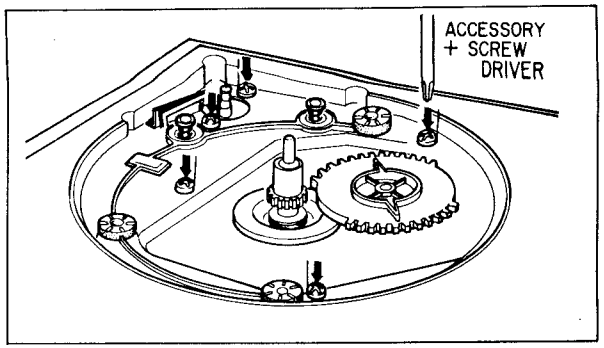
⓫ **(–) Screwdriver**
Used for several jobs on the YP-701, including belt pulley change.

⓬ **Tweezers**
Ideal for handling small parts, screws, etc.

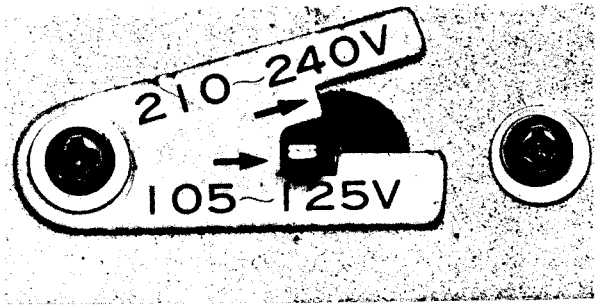
⓭ **Silicon Cloth & Cabinet Cleaner**
Special Yamaha products to keep your YP-701 looking as good as it sounds.

MECHANISM & PLATTER ASSEMBLY

Remove the five red-topped transport screws (use the (+) screwdriver) and store them in the accessory case.

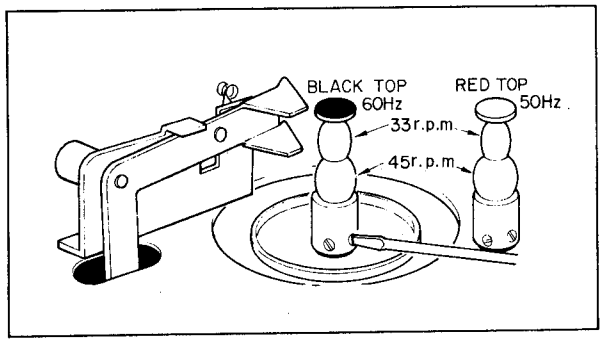


Check that the voltage selector is adjusted to the voltage in your area. If it must be changed, use the (+) screwdriver to loosen the lock piece, reset, and then lock in place by retightening the screw.

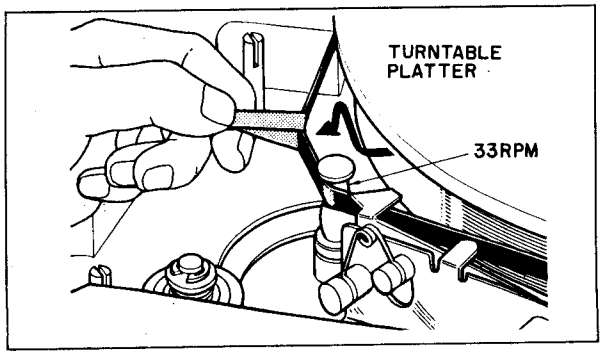


Units shipped to the U.S.A. and Canada are designed to be operated with 117 volts 60Hz AC only. Therefore the above units are not equipped with an AC Voltage Selector Switch so all reference to such a switch throughout this manual should be disregarded.

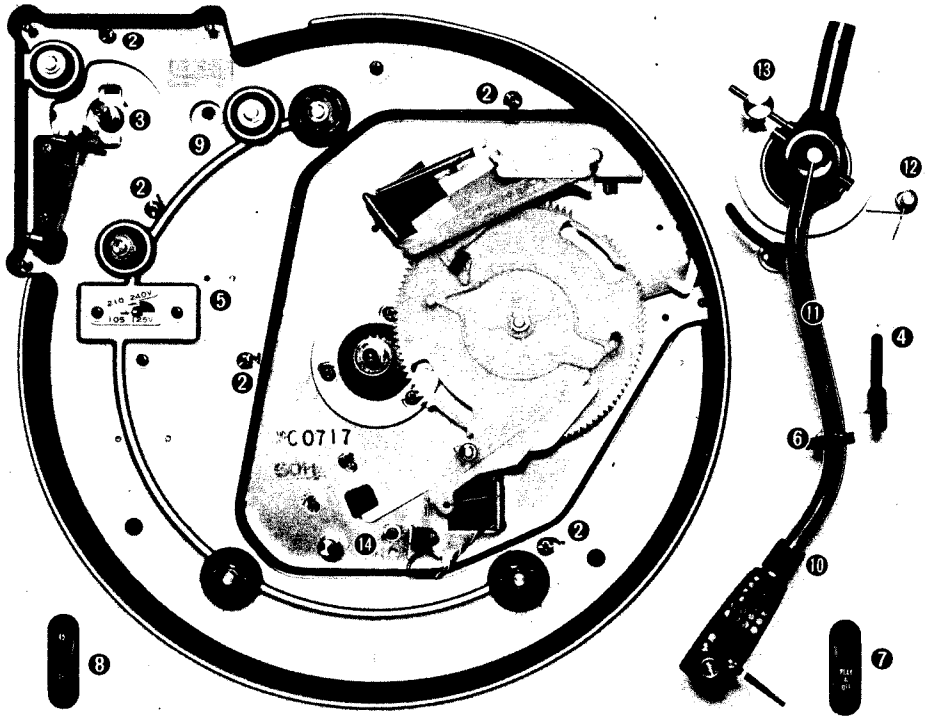
Check that the motor pulley is compatible with your line frequency. The black-topped pulley is for 60Hz; the one with the red top is for 50Hz. If the pulley must be changed, remove the spare from the holder and install it (use the (–) screwdriver), then return the unused pulley to the holder.



Before mounting the platter, press the PLAY & OFF switch once so that the auto-return system engages the center shaft gears.
Also set the speed selector to 33.
Place the platter carefully onto the center shaft, taking care not to knock the pin on the under side. While you are setting the platter in place, use your other hand to pull the drive belt out and over the pulley (handle the belt by the ribbon; touch it with your fingers as little as possible), threading it through the speed change guide at the same time, as shown in the illustration below.



Finally, slip on the platter mat and the triangular pulley mechanism cover.



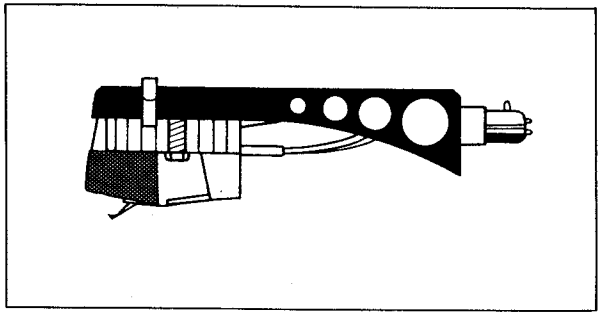
❶ Auto-Return Mechanism
❷ Red-Topped Transport Screws (5)
❸ Motor Pulley
❹ Cueing Lever
❺ Voltage Selector
❻ Tonearm Rest
❼ PLAY & OFF Switch
❽ Speed Selector
❾ Lubrication Hole
❿ Cartridge Shell Fastener Sleeve
⓫ Tonearm
⓬ Anti-Skating Weight Hook
⓭ Lateral Balance Weight
⓮ Spare Pulley

CARTRIDGE SELECTION

The YP-701 is supplied without a cartridge, in order to permit you to select the best cartridge to match your stereo system. The cartridge shell can be found in the accessory kit.

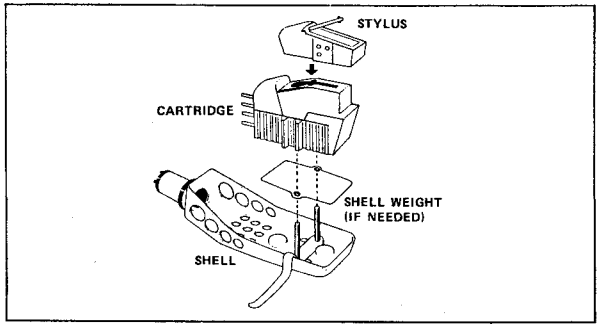
MM (moving magnet), IM (induced magnet) and MC (moving coil) type cartridges can be used with the YP-701. Most MC type cartridges, however, provide signal output too weak to be picked up by most amplifiers, and in such a case a special step-up transformer will be required.
Some high-output MC cartridges do not need such additional amplification. Be sure to follow the cartridge owner's manual instructions.

Any cartridge from 11 to 27 grams can be installed. If the cartridge weighs 22 grams or less, only the main weight is needed for balance adjustment. If it weighs over 22 grams, use both the main and sub weights. No head shell step-up transformer can be used if the combined MC transformer/cartridge weight exceeds 27 grams.
If the cartirdge is so light that precise tonearm balance is difficult, attach the special shell weight between the cartridge and the shell.
Cartridge dimensions should fall within the limits shown by the following illustration.



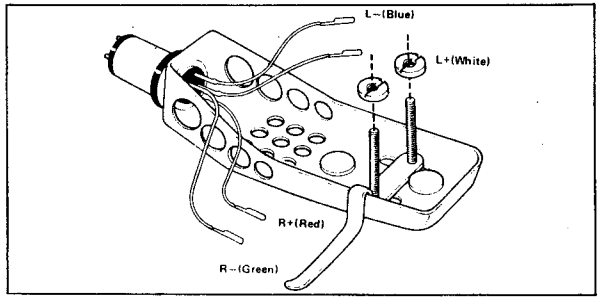
CARTRIDGE & SHELL INSTALLATION

Install the cartridge by placing it against the under side of the shell. Hold the cartridge in place and attach it with whichever set of screws is most suited to its thickness.

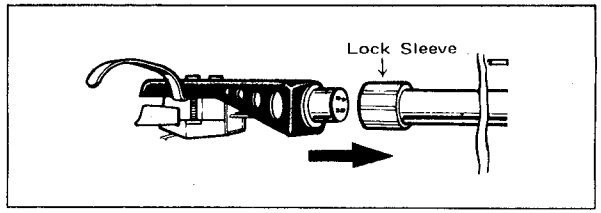


Once the cartridge is in place, do not fully tighten the screws. It must be adjusted for proper overhang once the shell is mounted.

Connect each of the four shell leads to the cartridge terminal according to the color coding shown below.



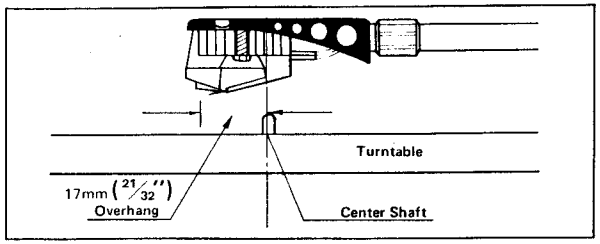
Now the shell can be attached to the tonearm. Loosen the shell lock sleeve and plug the shell into the end of the tonearm. Make sure it snaps into place, then secure it by tightening the sleeve.



OVERHANG ADJUSTMENT

The tonearm design calls for an overhang of 17mm, measured as shown below. This is achieved when the stylus is positioned so that it passes directly over the shaft at the center of the platter. To adjust, first loosen the cartridge holding screws, then slide the cartridge back or forward as required. Finally, retighten the screws.

NOTE: To lower the arm to the pillar, first unplug the power cord, then press the Play/Off switch and rotate the platter manually until the arm begins to lower, Then hold the arm and carefully lower it until the stylus is just over the pillar. Be careful not to let the stylus touch.



TURNTABLE LOCATION

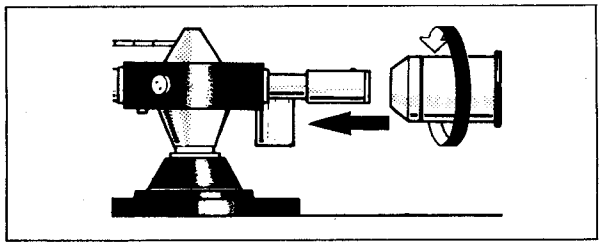
Choose a spot protected from heat and direct sunlight. Do not place the YP-701 on or in front of a speaker, for it will pick up vibrations and cause howling. Be sure the set is on a solid support, so that it is not affected by room vibrations.
It is best to place the YP-701 to the RIGHT if it is lined up alongside the amp to which it is connected. This will help to keep the cartridge as far as possible from the amplifier's transformer, reducing the danger of hum.

TONEARM BALANCE

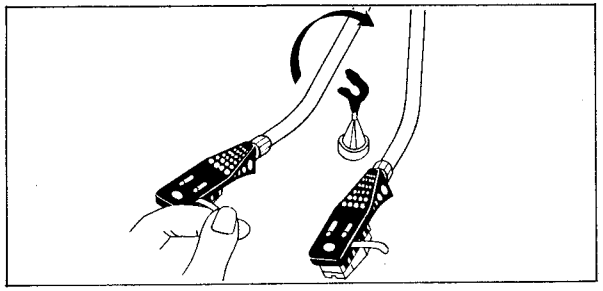
During this adjustment the tonearm must have only the attachments used during play. For this reason, slip the lateral balance weight onto its shaft temporarily. Also remove the stylus protector cover if the cartridge has one which must be taken off for record play. To protect the stylus in such a case, place a piece of foam rubber below the cartridge during tonearm balancing.

Slip the main weight onto the back end of the tonearm. If the sub weight is also required (depending upon cartridge weight as explained above), it must first be screwed into the back of the tonearm.

Push the main weight on until its threads catch on the tonearm.

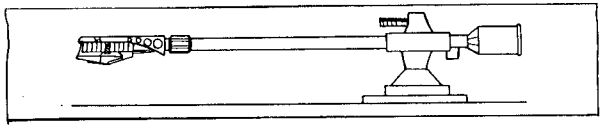


Lift the tonearm clear of the arm rest and move it over behind the arm rest.



The auto-return and anti-skating mechanisms are now disengaged.

Screw the main weight in or out until the tonearm is horizontally balanced. When balance is achieved the tonearm should rest parallel to the top of the cabinet; check by looking from the side of the set.

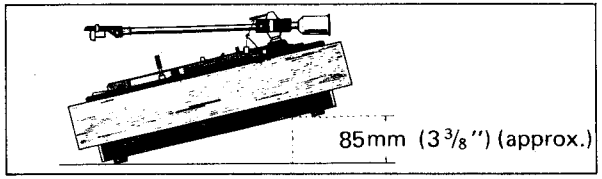


When balance is achieved, return the arm to its rest

LATERAL BALANCE

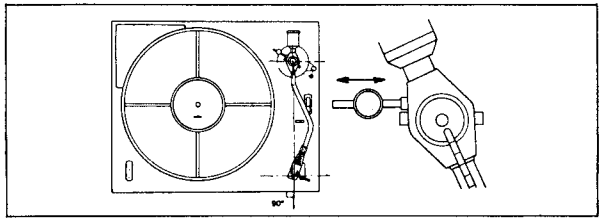
Now set the cueing lever to its PLAY (forward) position and make sure that the power cord is still unplugged. If this is not done the anti-skating mechanism will engage and interfere with the following adjustment.

Raise the rear of the set 85 mm (3⅜") and place a support under it so that the unit is tilted.



Adjust the lateral weight so that a line drawn from arm pivot to stylus tip will be parallel to the cabinet side. Since the back of the unit is raised, the arm will clear the arm rest and thus can swing one way or the other. Adjust the lateral weight so that it comes to rest in the position. If it swings toward the center of the platter, slide the balance weight away from the pivot. Slide the weight toward the pivot if it swings away from the platter.

After adjustments are complete, tighten the lateral weight screw with the small screwdriver provided in the accessory kit.

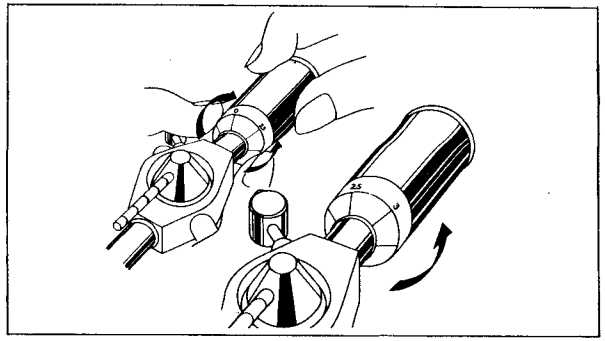


STYLUS PRESSURE

This adjustment requires perfect tonearm balance, so check and readjust if necessary.

Hold the main weight so that it does not move and adjust the counter ring on its front end so that the "0" is on top.

Now rotate the ring and weight TOGETHER counterclockwise until you achieve a ring reading corresponding to the correct tracking force (in grams) for the cartridge being used. Consult the cartridge owner's manual.



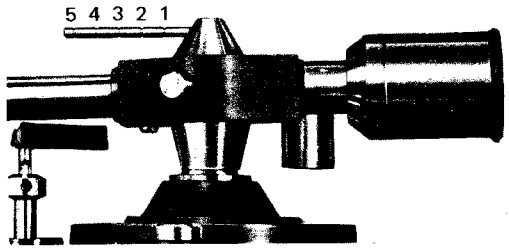
ANTI-SKATING MECHANISM

Normal tracking has a tendency to force the stylus off the outside groove wall toward the center of the record. This is called "skating" because in the most extreme cases the stylus will actually jump out of the groove and skate across the record toward the center. Even if this does not happen the stylus tends to exert undue force on the inside groove wall, thus causing record wear and poor stereo balance. The anti-skating mechanism compensates for this force.

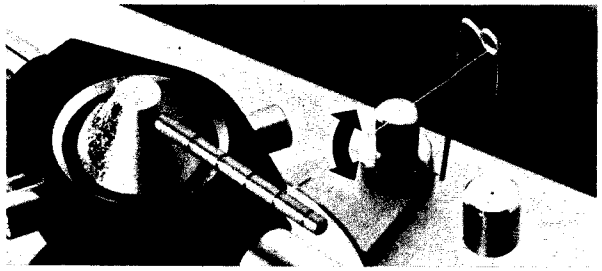
First remove the anti-skating weight from the accessory case. Slip the end of the thread through the hook and then slip the over the anti-skating weight shaft.

Position the loop on the proper shaft groove according to the tracking force.

Tracking Force	Groove
1 gram	1
1.5 grams	2
2 grams	3
2.5 grams	4
3 grams	5

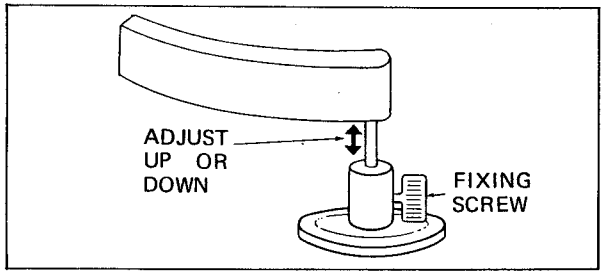


For example, if the cartridge requires a tracking force 2 grams, the loop should be hung on groove 3.
Now the hook position must be checked so that the antiskating weight does not (a) touch the panel surface when the tonearm is on its rest or (b) come all the way up and touch the hook itself when the tonearm is moved to the platter center spindle. If either of these problems are present loosen the fixing screw at the base of the hook, reposition the hook and then tighten the screw.



CUEING ADJUSTMENT

Check that the stylus fully clears the record when the cueing lever is in the raised (rear) position. Also check that the lifter mechanism fully clears the tonearm when the lever is in the play (forward) position and the stylus is resting on the record surface.
If the lifting mechanism is too high or low, adjust by first loosening the fixing screw. Retighten the screw after adjustment.



CONNECTIONS

Plug the signal cords into the Phono jacks of your amp or receiver. The red plug is for the right channel, the white for left.
For best performance, connect the black ground cord to the amp or receiver ground terminal nearest the Phono jacks.
The YP-701 power cord can be plugged into any AC outlet, but it is best to use a SWITCHED outlet on the amp or receiver to which the signal cords are connected.

OPERATION

Place a record on the turntable. Wipe it clean with the record cleaner. Handle records by their edges only.
If necessary, insert the 45 rpm adaptor.
Switch on the amp or receiver and set its function selector to Phono.
Press the YP-701 Play & Off switch to power the unit.
If a speed change is necessary, press the proper side of the switch.

NOTE: NEVER press the speed change switch unless the turntable is revolving.

Check that the cueing lever is in the raised position.
Lift the tonearm off its rest and place it so that the stylus is over the beginning of the record.
Slide the cueing lever forward and the tonearm will slowly lower to begin play.
The YP-701 incorporates an automatic signal output to eliminate the unpleasant sound caused by the stylus meeting the record surface. It functions during the first one or two revolutions after the tonearm is lowered.
Adjust the volume, stereo balance and tone with the amp or receiver controls.
When the record finishes the tonearm will automatically lift and return to its rest, and the turntable will stop.
To stop play in the middle of a performance, simply press the Play & Off switch: the tonearm will lift and return and the set will switch off. In such a case, it will require approx. 3 seconds for the mechanism to operate.
For temporary interruptions, such as a telephone call, stop the record play by lifting the tonearm with the cueing lever. Then play can later be resumed at the same position by returning the lever forward.
In the same way, record play can be begun at any point on the record by switching the unit on and positioning the tonearm over that point before lowering the cueing mechanism.
Near the end of the record it may be impossible to begin play in this way because the auto-return mechanism begins to work at that point. In such a case, position the tonearm over the desired point BEFORE pressing the switch to start the turntable.

MAINTENANCE

Once per year add two drops of oil through the lubrication hole under the platter. No other lubrication is necessary, all other moving parts are self-lubricating.

NOTE: If any oil spills onto the belt or connected parts, be sure to clean it off thoroughly right away.

To clean the dust cover, use the special cleaner and cloth in the accessory case, or a soft cloth dampened with water (mild soap can also be used). NEVER use a solvent, thinner or other petroleum product. The turntable surface and mat can be cleaned with a damp cloth, but it is best to use a dry cloth for the cabinet. No oil is required on the cabinet.

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Electrical power supplied and switch on but turntable does not turn.	Drive belt not installed correctly. Drive belt broken.	Reinstall. Replace
Tonearm will not descend for manual operation.	Cueing lever is at the up position. Arm lifter too high.	Reposition the cueing lever to the down position. Readjust.
Turntable speed too slow.	Oil on the motor pulley and/or drive belt. Wrong motor pulley installed. Drive belt stretched.	Remove oil throughly with alcohol-moistened cloth. Change pulley. Replace belt.
Motor noise heard through the speakers.	Shipping screws and/or metal fittings and washers not removed.	Follow instructions on first page.
Speed selector and auto-return system does not work correctly.	Drive belt not threaded through changeover guide.	Rethread.
Automatic return system stops turntable before record is finished. Auto-return system does not work at times.	Non-standard size record.	Play a standard size record.
No output even through stylus touches record.	Tonearm improperly balanced. Stylus lead(s) broken or disconnected. Stylus protective guard is down. Cartridge mounted improperly. Stylus and/or cartridge defective.	Rebalance tonearm. Connect or repair lead(s). Flip guard up or remove it. Mount cartridge correctly. Replace stylus and/or cartridge.
Howling or quivering in output. Difficult to hear sound output.	Feedback and/or vibrations, caused by turntable being too close to speaker(s).	Relocate turntable on firm surface, away from front of speaker.
Output distorted and noisy. Treble is distorted and lacks clarity.	Turntable too close to amp. Turntable not level. Stylus is dirty. Stylus tip worn out. Record damaged or dirty. Tracking force incorrect. Amplifier treble control adjusted too high.	Relocate. Level turntable. Clean with stylus brush. Replace. Replace or clean. Reset. Turn down.

SPECIFICATIONS

TURNTABLE
- Type: 2-Speed (33 ⅓ & 45 rpm), Belt drive
- Motor: Synchronous motor
- Platter: 30 cm (12") diam., aluminum diecast
- Wow & Flutter: Less than 0.08%
- S/N Ratio: 48 dB or better

TONEARM
- Type: Static balance type S-formed pipe arm
- Stylus pressure: 0 to 4 gr
- Head shell: Universal plug-in type, 12 gr
- Usable cartridge weight 11 - 27 g

POWER SUPPLY: 105~125 / 210 ~ 240 / 117V. 50 / 60 Hz

POWER CONSUMPTION: 15W

DIMENSIONS (WxDxH): 480 x 410 x 161 mm (19 x 16 ⅛ x 6 5/16")

WEIGHT: 9.2 kg (20.2 lbs.)

Specifications subject to change without notice.